

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 09/601,644B
Source: IFW16 - EFS
Date Processed by STIC: 3-4-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/09/601,644B

TIME: 07:46:31

Input Set : N:\efs\09601644B_efs\mmc_p001_txt.txt

Output Set: N:\CRF4\03042005\I601644B.raw

3 <110> APPLICANT: Gariepy, Jean
 4 Bray, Mark
 6 <120> TITLE OF INVENTION: Cytotoxic Heteromeric Protein Combinatorial Libraries
 8 <130> FILE REFERENCE: MMC.P-001
 10 <140> CURRENT APPLICATION NUMBER: 09/601,644B
 C--> 11 <141> CURRENT FILING DATE: 2002-11-27
 13 <150> PRIOR APPLICATION NUMBER: PCT/CA98/01137
 14 <151> PRIOR FILING DATE: 1998-12-08
 16 <160> NUMBER OF SEQ ID NOS: 58
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 293
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Shigella dysenteriae
 25 <400> SEQUENCE: 1
 26 Lys Glu Phe Thr Leu Asp Phe Ser Thr Ala Lys Thr Tyr Val Asp Ser
 27 1 5 10 15
 29 Leu Asn Val Ile Arg Ser Ala Ile Gly Thr Pro Leu Gln Thr Ile Ser
 30 20 25 30
 32 Ser Gly Gly Thr Ser Leu Leu Met Ile Asp Ser Gly Ser Gly Asp Asn
 33 35 40 45
 35 Leu Phe Ala Val Asp Val Arg Gly Ile Asp Pro Glu Glu Gly Arg Phe
 36 50 55 60
 38 Asn Asn Leu Arg Leu Ile Val Glu Arg Asn Asn Leu Tyr Val Thr Gly
 39 65 70 75 80
 41 Phe Val Asn Arg Thr Asn Asn Val Phe Tyr Arg Phe Ala Asp Phe Ser
 42 85 90 95
 44 His Val Thr Phe Pro Gly Thr Thr Ala Val Thr Leu Ser Gly Asp Ser
 45 100 105 110
 47 Ser Tyr Thr Thr Leu Gln Arg Val Ala Gly Ile Ser Arg Thr Gly Met
 48 115 120 125
 50 Gln Ile Asn Arg His Ser Leu Thr Thr Ser Tyr Leu Asp Leu Met Ser
 51 130 135 140
 53 His Ser Gly Thr Ser Leu Thr Gln Ser Val Ala Arg Ala Met Leu Arg
 54 145 150 155 160
 56 Phe Val Thr Val Thr Ala Glu Ala Leu Arg Phe Arg Gln Ile Gln Arg
 57 165 170 175
 59 Gly Phe Arg Thr Thr Leu Asp Asp Leu Ser Gly Arg Ser Tyr Val Met
 60 180 185 190
 62 Thr Ala Glu Asp Val Asp Leu Thr Leu Asn Trp Gly Arg Leu Ser Ser
 63 195 200 205
 65 Val Leu Pro Asp Tyr His Gly Gln Asp Ser Val Arg Val Gly Arg Ile
 66 210 215 220

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```

68 Ser Phe Gly Ser Ile Asn Ala Ile Leu Gly Ser Val Ala Leu Ile Leu
69 225                230                235                240
71 Asn Cys His His His Ala Ser Arg Val Ala Arg Met Ala Ser Asp Glu
72                245                250                255
74 Phe Pro Ser Met Cys Pro Ala Asp Gly Arg Val Arg Gly Ile Thr His
75                260                265                270
77 Asn Lys Ile Leu Trp Asp Ser Ser Thr Leu Gly Ala Ile Leu Met Arg
78                275                280                285

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80 Arg Thr Ile Ser Ser

81 290

86 <210> SEQ ID NO: 2

87 <211> LENGTH: 69

88 <212> TYPE: PRT

89 <213> ORGANISM: Shigella dysenteriae

91 <400> SEQUENCE: 2

93 Thr Pro Asp Cys Val Thr Gly Lys Val Glu Tyr Thr Lys Tyr Asn Asp

94 1 5 10 15

96 Asp Asp Thr Phe Thr Val Lys Val Gly Asp Lys Glu Leu Phe Thr Asn

97 20 25 30

99 Arg Trp Asn Leu Gln Ser Leu Leu Ser Ala Gln Ile Thr Gly Met

100 35 40 45

102 Thr Val Thr Ile Lys Thr Asn Ala Cys His Asn Gly Gly Gly Phe Ser

103 50 55 60

105 Glu Val Ile Phe Arg

106 65

109 <210> SEQ ID NO: 3

110 <211> LENGTH: 94

111 <212> TYPE: DNA

112 <213> ORGANISM: artificial

114 <220> FEATURE:

115 <223> OTHER INFORMATION: primer

118 <220> FEATURE:

119 <221> NAME/KEY: misc_feature

120 <222> LOCATION: (25)..(26)

121 <223> OTHER INFORMATION: nis a, c, g or t

123 <220> FEATURE:

124 <221> NAME/KEY: misc_feature

125 <222> LOCATION: (28)..(29)

126 <223> OTHER INFORMATION: nis a, c, g or t

128 <220> FEATURE:

129 <221> NAME/KEY: misc_feature

130 <222> LOCATION: (31)..(32)

131 <223> OTHER INFORMATION: nis a, c, g or t

133 <220> FEATURE:

134 <221> NAME/KEY: misc_feature

135 <222> LOCATION: (34)..(35)

136 <223> OTHER INFORMATION: nis a, c, g or t

138 <220> FEATURE:

139 <221> NAME/KEY: misc_feature

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140 <222> LOCATION: (37)..(38)
141 <223> OTHER INFORMATION: nis a, c, g or t
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <222> LOCATION: (67)..(68)
146 <223> OTHER INFORMATION: nis a, c, g or t
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (70)..(71)
151 <223> OTHER INFORMATION: nis a, c, g or t
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (73)..(74)
156 <223> OTHER INFORMATION: nis a, c, g or t
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: (76)..(77)
161 <223> OTHER INFORMATION: nis a, c, g or t
163 <400> SEQUENCE: 3
W--> 164 aaggtggagt atacaaaata taatnnsnns nnsnnsnnsa cagttaaagt gggtgataaa 60
W--> 166 gaattannsn nsnnsnnstg gaatcttcag tctc 94
169 <210> SEQ ID NO: 4
170 <211> LENGTH: 128
171 <212> TYPE: DNA
172 <213> ORGANISM: artificial
174 <220> FEATURE:
175 <223> OTHER INFORMATION: primer
177 <400> SEQUENCE: 4
178 tacgtactgc agctcgagtc aacgaaaaat aacttcgctg aatccaccgc cattatggca 60
180 cgcgttagtt ttaatggtta cagtcatacc ggtaatttgc gcactgagaa gaagagactg 120
182 aagattcc 128
185 <210> SEQ ID NO: 5
186 <211> LENGTH: 15
187 <212> TYPE: DNA
188 <213> ORGANISM: Shigella dysenteriae
190 <400> SEQUENCE: 5
191 aatgatgacg atacc 15
194 <210> SEQ ID NO: 6
195 <211> LENGTH: 12
196 <212> TYPE: DNA
197 <213> ORGANISM: Shigella dysenteriae
199 <400> SEQUENCE: 6
200 tttaaccaaca ga 12
203 <210> SEQ ID NO: 7
204 <211> LENGTH: 5
205 <212> TYPE: PRT
206 <213> ORGANISM: Shigella dysenteriae
208 <400> SEQUENCE: 7
210 Asn Asp Asp Asp Thr

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Input Set : N:\efs\09601644B_efs\mmc_p001_txt.txt

Output Set: N:\CRF4\03042005\I601644B.raw

```

211 1      5
214 <210> SEQ ID NO: 8
215 <211> LENGTH: 4
216 <212> TYPE: PRT
217 <213> ORGANISM: Shigella dysenteriae
219 <400> SEQUENCE: 8
221 Phe Thr Asn Arg
222 1
225 <210> SEQ ID NO: 9
226 <211> LENGTH: 15
227 <212> TYPE: DNA
228 <213> ORGANISM: artificial
230 <220> FEATURE:
231 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
233 <400> SEQUENCE: 9
234 aacgaggagg agacg
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 5
239 <212> TYPE: PRT
240 <213> ORGANISM: artificial
242 <220> FEATURE:
243 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
245 <400> SEQUENCE: 10
247 Asn Glu Glu Glu Thr
248 1      5
251 <210> SEQ ID NO: 11
252 <211> LENGTH: 12
253 <212> TYPE: DNA
254 <213> ORGANISM: artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
259 <400> SEQUENCE: 11
260 ttcgcgaaca gc
263 <210> SEQ ID NO: 12
264 <211> LENGTH: 4
265 <212> TYPE: PRT
266 <213> ORGANISM: artificial
268 <220> FEATURE:
269 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
271 <400> SEQUENCE: 12
273 Phe Ala Asn Asn
274 1
277 <210> SEQ ID NO: 13
278 <211> LENGTH: 15
279 <212> TYPE: DNA
280 <213> ORGANISM: artificial
282 <220> FEATURE:
283 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
285 <400> SEQUENCE: 13

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Input Set : N:\efs\09601644B_efs\mmc_p001_txt.txt

Output Set: N:\CRF4\03042005\I601644B.raw

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286 aacgagcagg acacc 15
289 <210> SEQ ID NO: 14
290 <211> LENGTH: 5
291 <212> TYPE: PRT
292 <213> ORGANISM: artificial
294 <220> FEATURE:
295 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
297 <400> SEQUENCE: 14
299 Asn Glu Gln Asp Thr
300 1 5
303 <210> SEQ ID NO: 15
304 <211> LENGTH: 12
305 <212> TYPE: DNA
306 <213> ORGANISM: artificial
308 <220> FEATURE:
309 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
311 <400> SEQUENCE: 15
312 ttcgcgaaca gc 12
315 <210> SEQ ID NO: 16
316 <211> LENGTH: 4
317 <212> TYPE: PRT
318 <213> ORGANISM: artificial
320 <220> FEATURE:
321 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
323 <400> SEQUENCE: 16
325 Phe Thr His Arg
326 1
329 <210> SEQ ID NO: 17
330 <211> LENGTH: 15
331 <212> TYPE: DNA
332 <213> ORGANISM: artificial
334 <220> FEATURE:
335 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
337 <400> SEQUENCE: 17
338 aaggacgacg cgagg 15
341 <210> SEQ ID NO: 18
342 <211> LENGTH: 5
343 <212> TYPE: PRT
344 <213> ORGANISM: artificial
346 <220> FEATURE:
347 <223> OTHER INFORMATION: mutant fragment from Shigella dysenteriae
349 <400> SEQUENCE: 18
351 Lys Glu Asn Glu Ser
352 1 5
355 <210> SEQ ID NO: 19
356 <211> LENGTH: 11
357 <212> TYPE: DNA
358 <213> ORGANISM: artificial
360 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/04/2005
PATENT APPLICATION: US/09/601,644B TIME: 07:46:32

Input Set : N:\efs\09601644B_efs\mmc_p001_txt.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 25,26,28,29,31,32,34,35,37,38,67,68,70,71,73,74,76,77

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31

Seq#:32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55

Seq#:56,57,58

VERIFICATION SUMMARY

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60